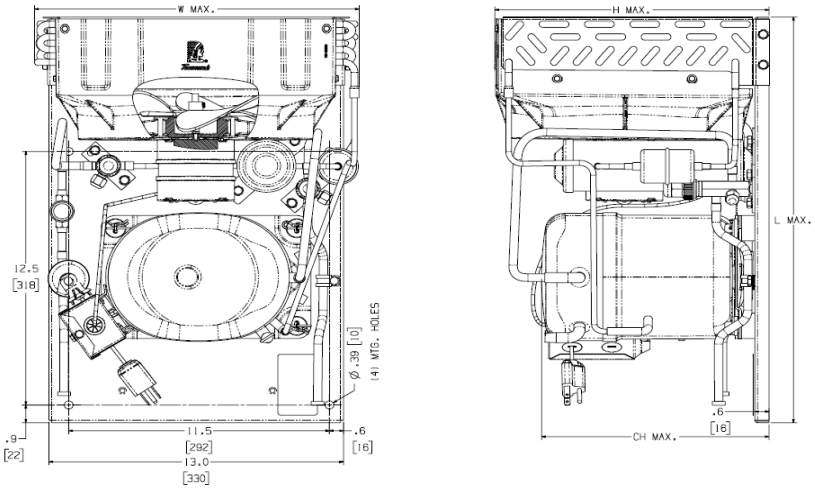
January 21, 2013
Revision: REL

Celseon® Air Cooled Condensing Unit

Model: AKA4472YNAD*
BoM: 2G732- R-134a 1/2 HP**



Model	Dimensions, inches				Line Connection*		Pumpdown	Air	Oil Ch	Gr. Wt.
	L	W	H	CH	Suction	Liquid	90 °F 90%	SCFM	Oz.	Lbs.
AKA4472YNADA	20.0	14.3	12.1	10.1	3/8" S	1/4" S	N/A	230	17	53
AKA4472YNADG					3/8" S	3/8" S	3.2 lbs			54
AKA4472YNADH					3/8" S	3/8" S	N/A			53
AKA4472YNADK					3/8" S	1/4" S				53
AKA4472YNADC					3/8" S	3/8" S	3.2 lbs			54
AKA4472YNADS					3/8" S	3/8" S	N/A			53
AKA4472YNADJ					3/8" S	3/8" S	3.2 lbs			54
AKA4472YNADP					3/8" S	3/8" S	3.2 lbs			54

* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

		Ambient Temperatures											
Evaporator T,		80°F			90°F			100°F			110°F		
°F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
20	18.4	4913	790	105	4426	788	114	3931	795	122	3469	792	131
25	22.1	5477	846	108	4959	857	117	4423	863	123	3935	862	133
30	26.1	6057	905	112	5501	928	120	4926	935	125	4396	938	136
35	30.4	6655	968	115	6054	1000	124	5439	1011	128	4850	1020	140
40	35.1	7269	1035	118	6616	1073	127	5963	1091	133	5299	1107	143
45	40.1	7899	1105	122	7187	1148	130	6497	1175	140	5743	1199	147
50	45.5	8546	1179	125	7769	1224	133	7042	1263	148	6180	1297	152
55	51.3	9210	1257	129	8361	1301	137	7597	1355	157	6612	1401	156

60 Hz Performance

Return gas temp. 65°F, 5°F sub cooling

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Specifications/ Parts:

Unit Model	**AKA4472YNADA**
Unit Bill of Material	**2G732-09**
Refrigeration Range	20° F to 55° F
Design Pressure Low	150
Design Pressure High	235
Nominal Volts-Hz-Ph	208/230-60-1
Voltage Range	187 to 254
Min. Circuit Ampacity	7.5
Max. Fuse Size (amps)	15
Compressor Model	AKA4476YXD
Comp. Bill of Material	AK169ET-037-P2
Compressor RLA/LRA	5.7/27.4
Overload	External
Relay	820ARR2H18
Run Capacitor	N/A
Run Capacitor Rating	N/A
Start Capacitor	85PS250D10
Start Capacitor Rating	130-156 MFD 250V
Fan Motor	810-10002
Fan Motor RLA	.4
Fan Blade	515-10003
Fan Shroud/Guard Combo	707-00005
Condenser	506-10008
Unit Drawing	DGU1970-01
Wiring Diagram	91266-01
Replacement Kit: Relay	K71-22
Replacement Kit: O/L	K90-19

Unit Model	**AKA4472YNADG**
Unit Bill of Material	**2G732-19**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA4472YNADH**
Unit Bill of Material	**2G732-29**
Liquid Valve	56630
Suction Valve	56630
Unit Model	**AKA4472YNADK**
Unit Bill of Material	**2G732-39**
Power Cord	85259-5
Unit Model	**AKA4472YNADC**
Unit Bill of Material	**2G732-59**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85259-5
Unit Model	**AKA4472YNADS**
Unit Bill of Material	**2G732-69**
Liquid Valve	56630
Suction Valve	56630
Power Cord	85259-5
Unit Model	**AKA4472YNADJ**
Unit Bill of Material	**2G732-79**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Filter Drier	71116
Sight Glass	70084
Unit Model	**AKA4472YNADP**
Unit Bill of Material	**2G732-89**
Receiver Tank	510-10000
Liquid Valve	56630
Suction Valve	56630
Power Cord	85259-5
Filter Drier	71116
Sight Glass	70084

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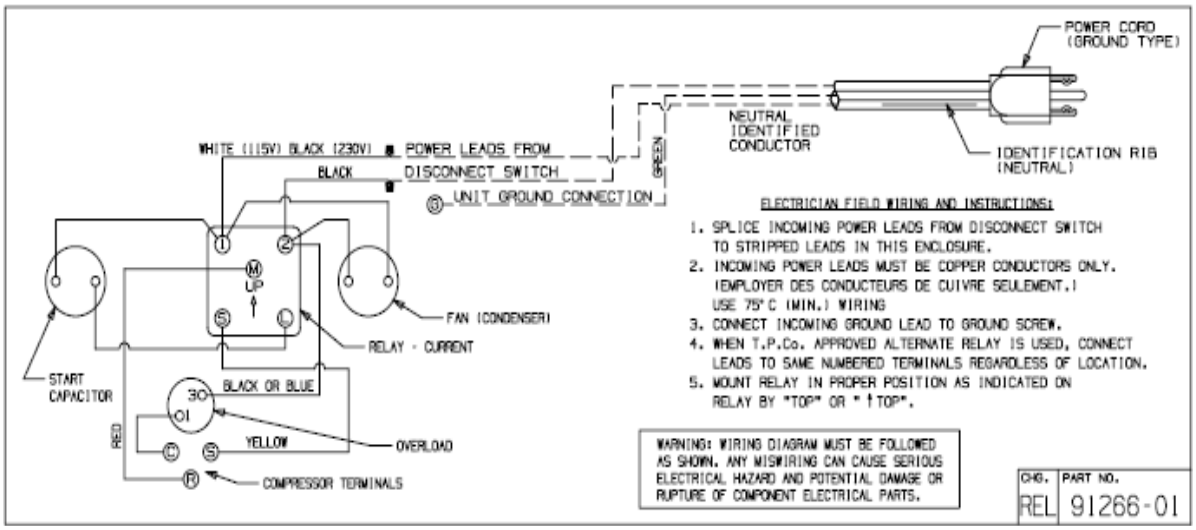
Electrical Diagram Page 3


POWER CORD
(GROUND TYPE)
NEUTRAL
IDENTIFIED
CONDUCTOR
IDENTIFICATION RIB
(NEUTRAL)
WHITE (115V) BLACK (230V)
BLACK
POWER LEADS FROM
DISCONNECT SWITCH
UNIT GROUND CONNECTION
GREEN
FAN (CONDENSER)
RELAY - CURRENT
START
CAPACITOR
BLACK OR BLUE
RED
YELLOW
OVERLOAD
COMPRESSOR TERMINALS
ELECTRICIAN FIELD WIRING AND INSTRUCTIONS:
1. SPLICE INCOMING POWER LEADS FROM DISCONNECT SWITCH TO STRIPPED LEADS IN THIS ENCLOSURE.
2. INCOMING POWER LEADS MUST BE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVRE SEULEMENT.) USE 75°C (MIN.) WIRING
3. CONNECT INCOMING GROUND LEAD TO GROUND SCREW.
4. WHEN T.P.Co. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
5. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑TOP".
WARNING: WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.
CHG.
PART NO.
REL
91266-01